DOW CORNING

A Selection Guide to ELECTRONIC MATERIALS

from

Dow Corning

PRODUCTS - PROPERTIES - APPLICATIONS

Selection

COATINGS

Dow Corning® and Sylgard® brand insulating varnishes and coatings types:

	PROPERTIES	UNITS	Test Method ASTM No.	Dow Corning 997	Dow Corning 630	Sylgard 1377
PHYSICAL AND CHEMICAL	Physical Nature (as cured)			Film	Film	Film
	Color			Brown	Clear	Lt. Straw
	Viscosity 25 C	centiposes	D 445	150	500	100
	Specific Gravity 25 C		D 792	1.01	0.916	1.12
	Shelf Life	months		12	12	12
	Pot Life 25 C (1)	hours		dna	dna	dna
	Cure Time/Temp.	hrs/°C		6/150	2/25	6/150
	Refractive Index 25 C		D 1218	dna	1.4172	dna
	Radiation Resistance (2)	megarads		1000	250	1000
	Flash Point (open cup)	°F	D 92	90	86	105
	H_2O Absorption—7 days	% at 25 C	D 570	0.40	0.10	0.15
	Viscosity/Temp. Coefficient			dna	dna	dna
	Temp./Range—useful	°C		—34 to 315	—60 to 135	—34 to 260
	Thermal Conductivity	cal/cm²/°C/sec/cm		3.5 x 10^{-4}	3.6 x 10^{-4}	3.5 x 10^{-4}
	Thermal Shock MIL-I-16923C	10 cycles		dna	dna	dna
	Weight Loss 96 hr/200 C	%		6.4	5.7	12.0
	1000 hr/200 C	%		9.7	10.5	23.0
	Self Extinguishing		D 635	NO	NO	NO
	Volume Expansion	cc/cc/°C		7.0 x 10^{-4}	8.0 x 10^{-4}	5.9 x 10^{-4}
	Specific Heat 25 C	cal/gm/°C		0.34	0.33	0.34
MECHANICAL	Tensile Strength	psi	D 412			
	Elongation	%	D 412			
	Hardness Shore A		D 676	dna	dna	dna
	Pour/Brittle Point	°C	D 97/D 746	—20	—60	—40
	Deep Section Cure			dna	dna	dna
	Bleed (MIL-I-8660)	%		dna	dna	dna
	Consistency, unworked		D 217	dna	dna	dna
	Evaporation	%		dna	dna	dna
ELECTRICAL	Arc Resistance	seconds	D 495	200	180	120
	Dielectric Constant (10^2 cps)		D 924/D 150	3.1	2.8	3.4
	Dielectric Constant (10^6 cps)		D 924/D 150	3.0	2.7	3.3
	Dissipation Factor (10^2 cps)		D 924/D 150	0.01	0.002	0.005
	Dissipation Factor (10^6 cps)		D 924/D 150	0.007	0.001	0.002
	Electric Strength	volts/mil	D 877/D 149	2000	1400	2000
	Volume Resistivity	ohm-cm	D 1169/D 257	2.0 x 10^{14}	6.0 x 10^{14}	1.0 x 10^{15}
	MIL SPEC.			MIL-I-2707B		

NOTES + Also available in viscosities of 10, 50, 100, 200, 350, 500 and 1,000 centistokes

++ Also available in viscosities of 1,000 and 10,000 centistokes

dna Does not apply

* Viscosities of these fluids in centistokes

** Closed cup

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Guide To Electronic M

POTTING AND ENCAPSULATING MATERIALS

Silastic® brand RTV adhesive type:	Dow Corning® RTV encapsulants types:						Sylgard® brand resin types:			
732	3110	3114	3116	3117	3118	3120	182	183	184	185
Rubber	Rubber	Rubber	Rubber	Rubber	Rubber	Rubber	Rubber-like	Rubber-like	Rubber-like	Rubber-li
White	White***	Buff	Tan	Tan	Buff	Red	Clear	Black	Clear	Black
700,000	12,500	12,000	50,000	50,000	30,000	30,000	5,250	8,000	5,250	8,000
1.07	1.1	1.42	1.13	1.13	1.29	1.47	1.05	1.23	1.05	1.23
6	12	6	12	12	6	12	12	12	6	6
1	3.0	4	3	10 min.	1.5	3	8	4	2	2
24/25	24/25	24/25	24/25	12/25	24/25	24/25	4/65	4/65	24/25	24/25
dna	dna	dna	dna	dna	dna	dna	1.43	dna	1.43	dna
100	100	100	100	100	100	100	200	250	200	250
dna	dna	dna	dna	dna	dna	dna	dna	dna	dna	dna
0.40	0.4	0.3	0.4	0.4	0.3	0.2	0.10	0.12	0.10	0.12
dna	dna	dna	dna	dna	dna	dna	dna	dna	dna	dna
—73 to 260	—65 to 250	—65 to 250	—65 to 250	—65 to 250	—65 to 250	—65 to 300	—65 to 200	—65 to 250	—65 to 200	—65 to 2
4.95×10^{-4}	5.0×10^{-4}	5.7×10^{-4}	5.2×10^{-4}	5.2×10^{-4}	5.2×10^{-4}	7.5×10^{-4}	3.5×10^{-4}	7.5×10^{-4}	3.5×10^{-4}	7.5×10
pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
6.4	6	6	6.3	6.3	2.0	5.7	2.1	1.5	2.1	1.5
							3.2	2.3	4.0	2.8
NO							YES	YES	YES	YES
9.3×10^{-4}	7.5×10^{-4}	7.5×10^{-4}	7.5×10^{-4}	7.5×10^{-4}	7.8×10^{-4}	5.2×10^{-4}	9.6×10^{-4}	7.8×10^{-4}	9.6×10^{-4}	7.8×1
0.35	0.35	0.34	0.34	0.34	0.35	0.32	0.34	0.32	0.34	0.32
200	350	400	300	300	300	650	900	900	900	900
250	150	140	160	160	150	100	100	100	100	100
25	45	40	35	43	42	65	40	45	40	45
—73							—70	—65	—70	—65
NO	YES	NO	NO	NO	YES	YES	YES	YES	YES	YES
dna	dna	dna	dna	dna	dna	dna	dna	dna	dna	dna
dna	dna	dna	dna	dna	dna	dna	dna	dna	dna	dna
dna	dna	dna	dna	dna	dna	dna	dna	dna	dna	dna
50	90	120	90	90	120	125	115	130	115	130
3.0	3.00	3.60	3.00	3.00	3.50	3.8	2.75	3.05	2.75	3.05
2.9	2.9	3.45	2.9	2.9	3.3	3.7	2.60	2.75	2.60	2.75
0.015	0.015	0.020	0.015	0.015	0.020	0.050	0.001	0.007	0.001	0.007
0.005	0.005	0.008	0.005	0.005	0.003	0.003	0.001	0.01	0.001	0.01
500	600	560	600	550	525	550	550	550	550	550
1.0×10^{13}	1×10^{14}	3×10^{14}	1×10^{14}	1×10^{14}	3×10^{14}	5×10^{13}	2.0×10^{15}	1.0×10^{14}	2.0×10^{15}	1.0×1

(1) Pot life is defined as time required to double viscosity after catalyst has been added.

(2) Useful after exposure to this megarad dose

All values are typical of production materials and are not intended for use in preparing specifications.

***Can be pigmented for color coding

ELECTRONIC PR

aterials

COOLANTS

COMPOUNDS

Dow Corning® fluid type:	Dow Corning® compounds and lubricants types:					
200	3	4	340	med. 33 Grease	PROPERTIES	
	Compounds					
Fluid	Grease	Grease	Grease	Grease	Physical Nature	PHYSICAL AND CHEMICAL
Clear	Trans.	Trans.	White	Gray	Color	
20+*	dna	dna	dna	dna	Viscosity	
0.955	1.0	1.0	2.45	.972	Specific Gravity	
12	12	12	12	12	Shelf Life	
dna	dna	dna	dna	dna	Pot Life	
dna	dna	dna	dna	dna	Cure Time/Temp.	
1.40	1.406	1.406	dna	dna	Refractive Index	
190	15	20	65	300	Radiation Resistance	
450	dna	dna	dna	dna	Flash Point	
dna	0.30	0.30	0.20	0.20	H_2O Absorption	
0.59	dna	dna	dna	dna	Viscosity/Temp. Coefficient	
—60 to 232	—40 to 200	—57 to 200	—65 to 200	—73 to 175	Temp. Range—useful	
3.4×10^{-4}	5.0×10^{-4}	5.0×10^{-4}	10.0×10^{-4}	2.8×10^{-4}	Thermal Conductivity	
dna	dna	dna	dna	dna	Thermal Shock	
dna	1.0	1.0	1.0	1.0	Weight Loss 96 hr/200 C	
dna					1000 hr/200 C	
dna	YES	YES	YES	YES	Self Extinguishing	
10.7×10^{-4}	9.5×10^{-4}	9.5×10^{-4}	7.5×10^{-4}	8.0×10^{-4}	Volume Expansion	
0.412	0.34	0.34	0.25	0.31	Specific Heat	
dna	dna	dna	dna	dna	Tensile Strength	MECHANICAL
dna	dna	dna	dna	dna	Elongation	
dna	dna	dna	dna	dna	Hardness Shore A	
—60	—75	—80	—75	—73	Pour/Brittle Point	
dna	dna	dna	dna	dna	Deep Section Cure	
dna	3.0	4.0	0.4	2.0	Bleed	
dna	200	200	290	260	Consistency	
dna	1.5	1.5	0.5	1.5	Evaporation	
dna	140	166	120	dna	Arc Resistance	ELECTRICAL
2.68	2.85	2.85	4.9	dna	Dielectric Constant (10^2 cps)	
2.68	2.85	2.85	4.9	dna	Dielectric Constant (10^6 cps)	
0.00004	0.0006	0.0006	0.005	dna	Dissipation Factor (10^2 cps)	
0.00001	0.0006	0.0006	0.001	dna	Dissipation Factor (10^6 cps)	
350	500	500	450	dna	Electric Strength	
1.0×10^{14}	1.0×10^{14}	1.0×10^{14}	2.0×10^{15}	dna	Volume Resistivity	
MIL-S-21568A		MIL-I-8660A		OS-10509	MIL SPEC.	

Dow Corning Electronic Materials

Dow Corning manufactures a complete line of dielectric materials for the electronic industry. Among these products is a wide range of silicone fluids, resins, varnishes, compounds, elastomers, molding compounds and laminating resins.

HEAT SHRINKABLE RUBBER

Parts and tubing of heat shrinkable silicone rubber are among the newest dielectric products available from Dow Corning. Used for cable coverings, connector boots and cable splicing, heat shrinkable rubber parts exhibit high heat resistance and good ablative properties.

MOLDING COMPOUNDS

Dow Corning manufacturers transfer molding compounds for the fabrication of molded parts and the encapsulation of resistors, capacitors, diodes, transistors, modules and other electronic components. Silicone molding compounds exhibit excellent properties over a temperature range of —65 to 300 C. The low dielectric losses exhibited by these materials result in extended operating frequency ranges for high frequency devices.

SILICONE LAMINATES

Glass laminates bonded with Dow Corning silicone resins are available through leading custom fabricators and distributors. These silicone glass laminates are used for circuit boards, coil forms, protective tubing and mechanical parts requiring high heat resistance and good high frequency dielectric performance.

SILICONE FLUIDS

DOW CORNING® 331 Fluid is a dielectric coolant for airborne electronic systems and other electronic devices. It is designed to meet MIL-S-27875.

DOW CORNING FS-1265 Fluid is a flurosilicone fluid with lubrication properties comparable to many organic lubricants . . . has been found especially useful for gyro floatation.

DOW CORNING Diffusion Pump Fluids types 702, 704 and 705 are specially formulated silicone fluids designed to produce ultrahigh vacuum. These fluids are stable, clear and exhibit low vapor pressures. Pressures of 5×10^{-11} torr, or lower, are attainable when refrigerated baffles are used in conjunction with Dow Corning 705 fluid. Applications for Dow Corning fluid types 702 and 704 include vacuum deposition of films in thin film electronic circuitry and production of thermionic and cold cathode vacuum tubes.

PROTECTIVE COATINGS

DOW CORNING 145 (red) ***and 630*** (clear) ***Protective Coatings*** are water repellent, flexible, wax-like films that air dry after application by brush, dip or spray. Use for printed circuit boards, coils, circuit modules.

DOW CORNING

DOW CORNING ELECTRONIC MATERIALS AVAILABLE FROM AUTHORIZED DISTRIBUTORS

SILICONE FLUIDS

DOW CORNING® 200 Electronic Fluid is available from authorized distributors in viscosities of 10, 20, 50, 100, 200, 350, 500 and 1,000 centistokes. This fluid, designed to meet MIL-S-21568A, is tested in accordance with Dow Corning quality control specifications for electronic grade fluids.

SILASTIC® Brand RTV Rubber

SILASTIC 732 RTV Rubber is ready to use as squeezed from a tube or cartridge. This adhesive/sealant bonds metals, plastics or silicone rubber; seals connectors, repairs cables, fills voids and can be used to encapsulate small electronic components.

DOW CORNING® Brand RTV Encapsulants

Six different encapsulants have been developed to provide selection of the product best suited for your application or processing requirements. They are:

1. ***DOW CORNING 3110 RTV Encapsulant*** is a *low* viscosity *deep section* curing compound that can be color coded.
2. ***DOW CORNING 3114 RTV Encapsulant*** is a *low* viscosity *general purpose* compound.
3. ***DOW CORNING 3116 RTV Encapsulant*** is a *medium* viscosity *general purpose* compound.
4. ***DOW CORNING 3117 RTV Encapsulant*** is a *medium* viscosity *fast curing* (10 minutes) compound.
5. ***DOW CORNING 3118 RTV Encapsulant*** is a *medium* viscosity deep section curing *reversion resistant* compound.
6. ***DOW CORNING 3120 RTV Encapsulant*** is a *medium* viscosity *deep section* curing, *high* strength (650 psi tensile) compound.

SLYGARD® Brand SOLVENTLESS SILICONE RESINS

SYLGARD 182 Resin is a transparent silicone resin for potting, encapsulating and coating electronic circuits and components. Long pot life and low viscosity make this elevated temperature curing material ideal for use in production dispensing equipment.

SYLGARD 183 Resin, companion product to Sylgard 182 resin, is an opaque material with better heat conduction and a wider serviceable temperature range.

SYLGARD 184 Resin, a transparent room temperature curing resin, is designed for the potting and encapsulation of heat sensitive devices and circuits.

SYLGARD 185 Resin, opaque version of Sylgard 184 resin, is used where opacity is an asset and higher heat conductance is required.

SILICONE COMPOUNDS

DOW CORNING 3 Compound is a translucent, grease-like material, designed to reduce corrosion on switch contacts and battery terminals and as an insulator for electronic assemblies.

DOW CORNING 4 Compound, a greaselike sealing and lubricating material for switches, toroids and connectors and a moisture proofer for electronic equipment, is designed to meet MIL-I-8660A.

DOW CORNING 340 Compound is a highly heat conductive, greaselike material used on transistor and rectifier heat sink junctions to improve thermal conduction.

MOLD RELEASES

DOW CORNING 7 Compound, a mold release agent, with the consistency of petroleum jelly, provides easy release of epoxies, polyesters and vinyls.

DOW CORNING 20 Compound is a heat curing mold release agent designed to form a durable thin film for easy release of epoxies, polyurethane foams, silicone laminates and silicone encapsulating resins.

LUBRICANTS

DOW CORNING 33 Grease, in medium and light consistencies, is designed to lubricate ball bearings and instrument bearings over the wide temperature range of —100 F to 350 F. Designed to meet OS-10509.

COATINGS

DOW CORNING 991 Varnish is an air dry varnish for coating and impregnating coils, transformers and electronic circuitry.

DOW CORNING 997 Varnish meets class H insulation requirements. A high temperature material, it is used for impregnating and coating coils, transformers, and other electrical/electronic equipment operating in high heat environments. Designed to meet MIL-I-2707B.

SYLGARD 1377 Varnish, a general purpose varnish with excellent adhesion and moisture resistance, is designed for coating and impregnating coils, transformers and reactors. Meets requirements of A, B, F, and H insulation systems.

Additional information on any or all of these materials is available from the Electronic Products Division, Dow Corning Corporation, Midland, Michigan, 48641.

ELECTRONIC PRODUCTS DIVISION, DOW CORNING CORPORATION, MIDLAND, MICHIGAN 48641

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Information about

Electronic Materials

ELECTRONIC MATERIALS DISTRIBUTORS

Authorized distributors of Dow Corning electronic materials are located throughout the United States, and maintain stocks at the locations indicated on the map on page 3. The names and addresses of these distributors, arranged alphabetically by state within regions are listed on pages 2 and 3. Write or call the distributor of your choice for data, price and delivery information on the products listed in this publication.

Dow Corning manufactures dielectric materials which exhibit the typical silicone properties of excellent resistance to temperature extremes, −100 to 700 F in some cases, and excellent electrical properties. Among these is a wide range of fluids, resins, varnishes, compounds, elastomers and molding compounds. These products comprise a complete line of silicone packaging materials, coolants, coatings and adhesives designed and formulated for the electronic industry.

DOW CORNING PRODUCTS AVAILABLE THROUGH DISTRIBUTORS

Adhesives

Dow Corning® 40C adhesive

Room or high temperature drying bonding resin for mica, glass, ceramics, wire, etc.

Silastic® 732 RTV rubber

Room temperature curing, one component RTV silicone rubber adhesive/sealant—colors: white, black or clear.

Silastic® 891 RTV rubber

Similar to Silastic 732 RTV rubber—color: white.

Dielectric Compounds

Dow Corning® 3 compound

Translucent, non-hardening, greaselike dielectric water repellent and sealant.

Dow Corning® 4 compound

Translucent, non-hardening, greaselike dielectric water repellent sealant designed to meet MIL-S-8660A.

Dow Corning® 4X spray

Aerosol spray version of Dow Corning 4 compound. Used as a dielectric sealant and release agent.

Dielectric Fluids

Dow Corning® 200 electronic fluids

Viscosities at 77 F: 10, 20, 50, 100, 200, 350, 500 and 1,000 centistokes. Designed to meet MIL-S-21568A.

Greases

*Dow Corning® 33 grease**

Extreme temperature range lubricant for ball bearings—operates from −100 to 300 F.

Heat Sink Compounds

Dow Corning® 340 silicone heat sink compound

A non-hardening, highly filled material for aiding heat conduction from semiconductor devices to heat sinks.

Heat Shrinkable Rubber Tubing

Silastic® 1410 heat shrinkable rubber

Silastic 1410 heat shrinkable silicone rubber, a non-thermoplastic material for protection of cable splices, line connectors and couplings is available in sizes from 1/16″ to 1½″ in lengths up to 20 feet. It shrinks to ½ its original diameter when heated to 300 F or higher; lateral shrinkage is negligible; withstands temperatures to 700 F.

* light or medium consistency

(Continued on page 4)

The information and data contained herein are based on information we believe reliable. You should thoroughly test any application, and independently conclude satisfactory performance before commercialization. Suggestions of uses should not be taken as inducements to infringe any particular patent.

DOW CORNING

BULLETIN: 01-084 DATE: FEBRUARY, 1965

ELECTRONIC PRODUCTS DIVISION
DOW CORNING CORPORATION
MIDLAND, MICHIGAN 48641

ATLANTA BOSTON CHICAGO CLEVELAND DALLAS LOS ANGELES NEW YORK

DISTRIBUTORS OF DOW CORNING ELECTRONIC MATERIALS

Eastern Region

CONNECTICUT

Cramer Electronics, Inc.
60 Connelly Parkway
Hamden 06714
203-288-7771

FLORIDA

Brownell, Inc.
307 27th Street
P. O. Box 8553
Orlando 32802
305-424-5634

GEORGIA

Brownell, Inc. of Atlanta
3026 Commerce Way
Hapeville 30054
404-767-9301

MARYLAND

D & H Distributing Co.
2025 Worcester St.
Baltimore
301-539-6525

MASSACHUSETTS

Brownell, Inc. of New England
271 Vassar St.
Cambridge 02139
617-864-7500

Cramer Electronics, Inc.
320 Needham Street
Newton 02164
617-969-7700

The Huse Liberty Mica Co.
Peabody Industrial Center
Peabody 01961
617-531-7100

NEW JERSEY

Electrical Insulation Sales Co.
P. O. Box 829
North Bergen, New Jersey
201-864-2376
212-564-6273

NEW YORK

Brownell, Inc.
85 Tenth Avenue
New York 10011
212-924-6000

Summit Distributors, Inc.
916 Main Street
Buffalo 14202
716-884-3450

NORTH CAROLINA

Brownell, Inc.
3109 Cullman Avenue
Charlotte 28206
704-333-8426

PENNSYLVANIA

D & H Distributing Co.
125 Titus Avenue
Warrington
215-343-1860
(Philadelphia Area)

Central Region

ILLINOIS

Allied Radio Corporation
100 North Western Avenue
Chicago 60680
312-829-9100

Magnuson Electronics, Inc.
5639 W. Fullerton
Chicago 60639
312-622-6322

MICHIGAN

Sheridan Sales Company
27305 Southfield Road
P. O. Box 128
Lathrup Village 48037
(Detroit)
313-353-3822

MINNESOTA

Magnuson Electronics, Inc.
1246 W. 7th Street
St. Paul 55102
612-227-8495

MISSOURI

Ensco Distributing Corp.
6717 Vernon Avenue
St. Louis
314-726-2233

OHIO

Sheridan Sales Company
10 Knollcrest Drive
Reading 45215
P. O. Box 37646
(Cincinnati)
513-761-5432

Sheridan Sales Company
6364 Pearl Road
P. O. Box 7486
Cleveland 44130
216-844-2001

Sheridan Sales Company
26 West Nottingham Road
P. O. Box 37
Dayton 44222
513-277-8911

TENNESSEE

Brownell, Inc.
217 Cumberland Street
Memphis 38112
901-323-7693

TEXAS

Specialized Products Company
2324 Shore Crest Drive
P. O. Box 20447
Dallas 75220
214-351-0978

Mountain Region

ARIZONA
E. V. Roberts & Associates, Inc.
412 North Marshall Way
Scottsdale 85251
602-947-1381

COLORADO
Waco Electronics, Inc.
4975 Jackson Street
Denver 80201
303-332-7708

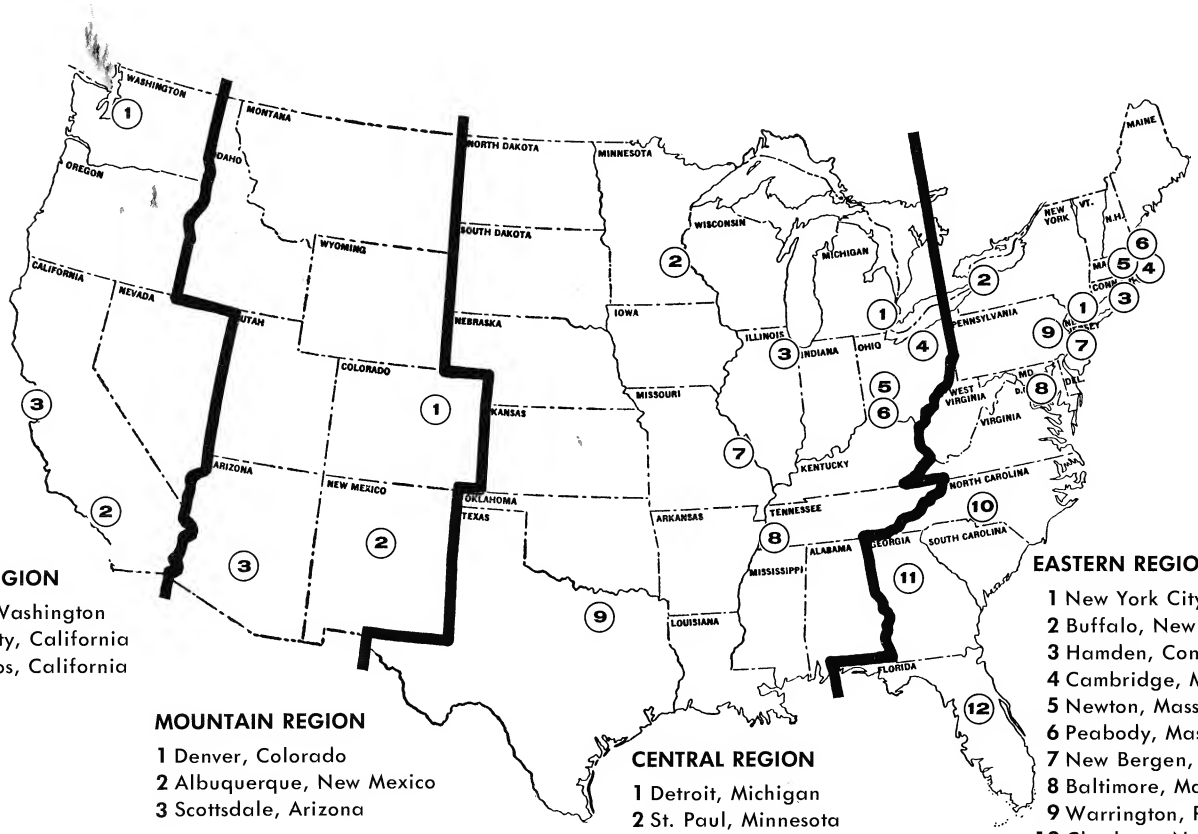
NEW MEXICO
Waco Electronics, Inc.
3223 Silver Avenue, S. E.
Albuquerque
505-268-2409

Pacific

CALIFORNIA
E. V. Roberts & Associates, Inc.
9601 West Jefferson Blvd.
Culver City 90230
213-870-9561
(Los Angeles Area)

E. V. Roberts & Associates, Inc.
800 San Antonio Rd.
Palo Alto 94303
415-324-1671
(San Francisco Area)

WASHINGTON
Atlas Packing & Rubber Co.
1736 Fourth Avenue S.
Seattle 98134
206-623-4697



PACIFIC REGION
1 Seattle, Washington
2 Culver City, California
3 San Carlos, California

MOUNTAIN REGION
1 Denver, Colorado
2 Albuquerque, New Mexico
3 Scottsdale, Arizona

CENTRAL REGION
1 Detroit, Michigan
2 St. Paul, Minnesota
3 Chicago, Illinois
4 Cleveland, Ohio
5 Dayton, Ohio
6 Cincinnati, Ohio
7 St. Louis, Missouri
8 Memphis, Tennessee
9 Dallas, Texas

EASTERN REGION
1 New York City, New York
2 Buffalo, New York
3 Hamden, Connecticut
4 Cambridge, Massachusetts
5 Newton, Massachusetts
6 Peabody, Massachusetts
7 New Bergen, New Jersey
8 Baltimore, Maryland
9 Warrington, Pennsylvania
10 Charlotte, North Carolina
11 Atlanta, Georgia
12 Orlando, Florida

Primers

Dow Corning® 1200 RTV primer
Aids adhesion of Silastic® 732, 891 and Dow Corning® 3118 RTV encapsulant to metals, plastics, glass, etc.

Silastic® 1201 RTV rubber primer
Use with all other RTV rubbers to aid adhesion to metal, plastics, glass, etc.

Sylgard® primer
Aids adhesion of Sylgard resins to metals, plastics, glass, etc.

Protective Coatings

Dow Corning® 145 protective coating (red)
Dow Corning® 630 protective coating (clear)
Water repellent, flexible, wax-like film that airdries after being applied by brush, dipping, or spraying.

Release Agents

Dow Corning® 7 compound
Greaselike coating for epoxy and plastic mold release.

Dow Corning® 20 compound
Heat cure liquid film coating for epoxy and plastic mold release.

Resins for Potting, Encapsulating and Embedding

Sylgard® 182 resin
A clear, flexible, solventless low temperature curing material for electronic packaging. Uncatalyzed resin is low in viscosity, flows readily.

Sylgard® 183 resin
Opaque, flexible, solventless, low temperature curing material. Companion product to Sylgard 182 resin. Uncatalyzed resin is low in viscosity, flows readily.

Sylgard® 184 resin
A clear, flexible, solventless, room temperature curing material for potting delicate circuitry and components. Uncatalyzed resin is low in viscosity, flows readily.

Sylgard® 185 resin
Opaque, flexible, solventless, room temperature curing material. Companion product to Sylgard 184 resin. Uncatalyzed resin is low in viscosity, flows readily.

RTV Rubber for Potting, Encapsulating and Embedding

Dow Corning® 3110 RTV encapsulant
Low viscosity, deep section curing compound that can be color coded. Most versatile of RTV encapsulants.

Dow Corning® 3114 encapsulant
Low viscosity, general purpose compound.

Dow Corning® 3116 RTV encapsulant
Medium viscosity, general purpose compound.

Dow Corning® 3117 RTV encapsulant
Medium viscosity, fast curing (10 minutes) compound.

Dow Corning® 3118 RTV encapsulant
Medium viscosity, deep section curing, reversion resistant compound.

Dow Corning® 3120 RTV encapsulant
Medium viscosity, deep section curing, high strength (650 psi tensile) compound.

Silastic® 881 RTV rubber
Pourable, 3-hour working time material for circuit encapsulation.

Silastic® 882 RTV rubber
Pourable, 30-minute working time material for circuit encapsulation.

Thinners

Dow Corning® 200 electronic fluid, 20 cs.
Diluent for lowering viscosity of Dow Corning® RTV encapsulants.

Silastic® RTV thinner
Diluent for lowering viscosity of RTV rubber.

Sylgard® 1330 thinner
Diluent for lowering viscosity of Sylgard resins.

Varnishes for Coating and Impregnating

Dow Corning® 991 varnish
Air dry coating and impregnating varnish.

Dow Corning® 997 varnish
High temperature baking varnish for transformers and coil impregnating and coating. Meets MIL-I-2707B Type 1.